(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 2 492 379 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(48) Corrigendum issued on:
24.10.2012 Bulletin 2012/43

(43) Date of publication:
29.08.2012 Bulletin 2012/35

(21) Application number: **10824951.7**

(22) Date of filing: **20.10.2010**

(51) Int Cl.:
C30B 29/28 *(2006.01)* ***G02B 27/28*** *(2006.01)*

(86) International application number:
PCT/JP2010/068422

(87) International publication number:
WO 2011/049102 (28.04.2011 Gazette 2011/17)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: **21.10.2009 JP 2009242433**

(71) Applicants:
- **Fujikura Ltd.**
  Tokyo
  135-8512 (JP)
- **National Institute for Materials Science**
  Ibaraki 305-0047 (JP)

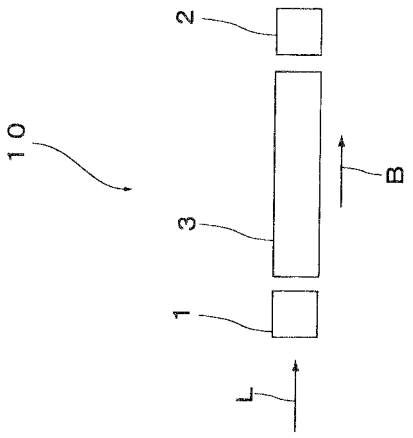
(72) Inventors:
- **SANADA Kazuo**
  Tokyo 135-8512 (JP)
- **SHIMAMURA Kiyoshi**
  Tsukuba-shi
  Ibaraki 305-0047 (JP)
- **GARCIA Villora Encarnacion Antonia**
  Tsukuba-shi
  Ibaraki 305-0047 (JP)

(74) Representative: **HOFFMANN EITLE**
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München (DE)

(54) SINGLE CRYSTAL, PROCESS FOR PRODUCING SAME, OPTICAL ISOLATOR, AND OPTICAL PROCESSOR USING SAME

(57) The present invention provides a single crystal for an optical isolator having a Faraday rotation angle exceeding that of TGG single crystal in a wavelength region of 1064 nm or longer or in a wavelength region of shorter than 1064 nm, and is capable of realizing enlargement of crystal size, a production process thereof, an optical isolator, and an optical processor that uses the optical isolator. The single crystal according to the present invention is composed of a terbium aluminum garnet single crystal, and mainly a portion of the aluminum is replaced with lutetium.

FIG. 1



EP 2 492 379 A8